

# TITLE: SHOCK-ABSORBING GOLF-CLUB HEAD

## BACKGROUND OF THE INVENTION

This invention relates to a shock-absorbing  
5 golf-club head, particularly to one possible to  
effectively absorb wrenching and shock force caused by  
batting to achieve an effectiveness of shock absorbing,  
shock lessening and stability of ball controlling.

Generally, when a golfer swings a golf club in  
10 striking a ball, the striking face of the golf club will  
give rise to a kind of wrenching and shock force, which  
may hurt a golfer's wrists.

In order to eliminate such drawback, some  
conventional golf-club head is integrally provided  
15 inside with a shock-absorbing layer for absorbing the  
wrench and shock force caused by hitting. The US Patent  
No. 5,772,527 is a typical example.

In accordance with US Patent No. 5,772,527, the  
striking face 21 of a golf-club head 2 is provided with a  
20 recess 22 having projection 23 around a front  
circumferential edge to be fixedly mounted with a metal  
face plate 25 by welding, closely sealing the recess 22  
and forming an intermediate hollow with a slot 24 on  
upper edge for injecting shock-absorbing material into  
25 the recess 22 to form a shock-absorbing layer 1, as  
shown in Figures 1, 2, and 3.

However, the wrench and shock force of a

golf-club head caused by hitting takes place instantly and spreads so quickly that it can hardly be absorbed completely by the single shock-absorbing layer inside the striking face of the golf-club head.

5 SUMMARY OF THE INVENTION

The objective of this invention is to offer a golf-club head having a function of effectively absorbing the wrench and shock force caused by hitting, enabling a golfer to acquire stability of ball controlling.

10 BRIEF DESCRIPTION OF DRAWINGS

This invention will be better understood by referring to the accompanying drawings, wherein:

Figure 1 is a perspective view of a known conventional golf-club head with a metal faceplate separated:

Figure 2 is a perspective view of the known conventional golf-club head:

Figure 3 is a side cross-sectional view of the known conventional golf-club head:

Figure 4 is an exploded perspective view of a golf-club head with a metal faceplate separated in the present invention:

Figure 5 is a rear view of the golf-club head half-completed in the present invention:

Figure 6 is a front view of the golf-club head in the present invention:

Figure 7 is a rear view of the golf-club head in

present invention:

Figure 8 is a side cross-sectional view of the golf-club head in the present invention.

## DETAILED DESCRIPTION OF THE PREFERRED 5 EMBODIMENT

A preferred embodiment of a shock-absorbing golf-club head in the present invention, as shown in Figure 4 and 5, includes a front recess 32 in the striking face of a golf-club head, extending to the top and the rear portions of the striking face and communicating with a rear recess 33 by means of a plurality of through holes 321. Then, a shock-absorbing layer 4 is formed into shape and affixed to the front and the rear recesses 32, 33, and a metal face plate 34 is fixedly mounted on the front recess 32, having dented portion around its circumferential edge fixed with the striking face synchronously when the shock-absorbing layer 4 is formed and affixed to the front and the rear recess 32 and 33, as shown in Figures 6, 7, and 8.

In addition, the shock-absorbing layer 4 is formed by compression with shock-absorbing material such as pure rubber or thermoplastic elastomers (so called TPE).

Further, Figure 8 shows that the front and the rear recess 32, 33 are respectively provided with a shock-absorbing layer 4 formed integrally to make up a double-deck shock-absorbing layer. By so designing, the front shock-absorbing layer 4 in the striking face can

directly absorb or lessen the wrench and shock force caused by hitting, and subsequently the rear shock-absorbing layer 4 in the rear recess 33 will completely absorb or eliminate the remaining shock force, thus obtaining an effectiveness of shock-absorbing, shock-lessening and stability of controlling balls.

While the preferred embodiment of the invention has been described above, it will be recognized and understood that various modifications may be made therein and the appended claims are intended to cover all such modifications that may fall within the spirit and scope of the invention.

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